

ABSTRACT OF THE DISCLOSURE

In a gas sensor element having a measurement gas chamber for introducing a measurement gas thereinto, a

5 sensor cell, and an electrochemical cell, the sensor cell has an active electrode facing the measurement gas chamber, a first reference electrode forming a pair with the active electrode, and a solid-electrolyte plate having both the electrodes, and is so constructed that

10 the concentration of a specific gas in the measurement gas chamber is detectable. The electrochemical cell has an inactive electrode facing the measurement gas chamber and being inactive to the specific gas, a second reference electrode forming a pair with the inactive

15 electrode, and a solid-electrolyte plate having both the electrodes. The inactive electrode is formed of a metallic material containing at least one selected from Au, Ag, Cu and Pb and an additional metallic material Rh. This gas sensor element promises good measurement

20 precision.